

Docket No.: 50107-485

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Dale L. BARTHOLOMEW, et al.

Serial No.: Not yet assigned
(continuation of SN 08/822,602,
which was Filed: March 19, 1997)

(Group Art Unit: Not yet assigned)
(Examiner: Not yet assigned)

Filed: July 23, 2001

For: TRANSPORT OF CALLER IDENTIFICATION INFORMATION THROUGH DIVERSE
COMMUNICATION NETWORKS

PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, DC 20231

Sir:

Prior to Examination of the above identified application, please amend the specification
and claims as instructed below.

IN THE SPECIFICATION

At page 1, please replace paragraph 1 (in lines 2-12) with the following:

-- This application is related to application Serial No. 08/821,027, filed March 3, 1997
and entitled Voice Call Alternative Routing Through PSTN And Internet Networks, application
Serial No. 08/634,544, entitled Universal Access Multimedia Network, filed April 18, 1996 (now
USP 5,790,548), application Serial No. 08/634,543, entitled Internet Telephone Service, filed
April 18, 1996 and application Serial No. 08/670,908, entitled Internet Telephone System, filed
June 28, 1996 (now USP 6,069,890). The specification of those applications are incorporated
herein by reference in their entirety.--

IN THE CLAIMS

Please cancel original claim 1.

Please add new claims 20-41, as follows.

--20. (New) A gateway for use in a telecommunications system having a plurality of diverse paths available for transporting a voice call, one of said paths traversing at least a public switched telephone network (PSTN) having a local line to a subscriber receiving the voice call and a packet-switched data communication network, the gateway being connectable between the packet-switched data communication network and the PSTN, the gateway comprising:

(a) a data network server connectable to the packet-switched data communication network, for receiving through the packet-switched data communication network a request from a calling party to set up a voice call through the PSTN to the local line to the subscriber, and for receiving identification information associated with the calling party through the packet-switched data communication network; and

(b) a telephony platform having a call connection to the PSTN for initiating the voice call through the PSTN to the local line to the subscriber in response to the request from the calling party and having a signaling link for providing call-related signaling information to the PSTN including the identification information associated with the calling party, to enable transport of the calling party identification information through the PSTN to the local line to the subscriber.

21. (New) The gateway of claim 20, wherein the data network server comprises a router for connection to a public data network.

22. (New) The gateway of claim 21, wherein the router is adapted for connection to the Internet.

23. (New) The gateway of claim 20, wherein the call connection and the signaling link comprise channels of an ISDN link between the telephony platform and the PSTN.

24. (New) The gateway of claim 20, wherein the call connection and the signaling link utilize a Feature Group D trunk between the telephony platform and the PSTN.

25. (New) The gateway of claim 20, wherein:

the call connection comprises a voice channel between the telephony platform and the PSTN; and

the signaling link comprises a Simplified Message Desk Interface (SMDI) link to an office of the PSTN.

26. (New) Apparatus for use in a telecommunications system having a plurality of diverse paths available for transporting a voice call, one of said paths traversing at least a public switched telephone network (PSTN) having a local line to a subscriber receiving the voice call and a packet-switched data communication network, said apparatus comprising:

a server comprising an interface for connection to the packet-switched data communication network, an interface for voice-call connection with the PSTN, and means for providing calling party identification information for a calling party to the PSTN based on calling party identification information received via the packet-switched data communication network;

whereby the calling party identification information is received via a path through the packet-switched data communication network and is conveyed to the called subscriber line by the PSTN upon routing of the voice call.

27. (New) The Apparatus as in claim 26, wherein the interface for connection to the packet-switched data communication network comprises a router for connection to an Internet Protocol (IP) network.

28. (New) The Apparatus as in claim 26, wherein the interface for connection to the packet-switched data communication network comprises a router for connection to the Internet.

29. (New) The Apparatus as in claim 26, wherein:

the interface for voice-call connection with the PSTN comprises a telephone switch for selective communication via a plurality of lines of the PSTN; and

the means for providing calling party identification information for the calling party to the PSTN comprises an interface to a signaling channel of the PSTN.

30. (New) A method for providing caller identification information for a voice call, originating from a remote calling subscriber device, to a called telephone subscriber line comprising the steps of:

routing an initial voice call, originated by a calling party at the remote calling subscriber device, through a packet switched data network to a gateway that interfaces between the packet switched data network and a public switched telephone network (PSTN);

in response to said routing step, placing a subsequent telephone call from the gateway through the PSTN to the called subscriber line;

linking the initial voice call at the gateway with the subsequent telephone call; and

transporting originating calling party identification information from the gateway through the PSTN to the called subscriber line while the called subscriber line is in an on-hook condition.

31. (New) The method of claim 30, wherein the step of routing the initial voice call comprises:

routing a telephone call from the remote calling subscriber device through a remote public switched telephone network (PSTN) to a remote gateway coupled between the packet switched data network and the remote PSTN; and

establishing communications relating to the initial voice call between the two gateways via the packet switched data network.

32. (New) The method of claim 31, wherein:

the step of establishing communications comprises communicating from the remote gateway an identification of a line of the remote PSTN for the remote calling subscriber device; and

the step of transporting originating calling party identification information is responsive to the identification of the line of the remote PSTN.

33. (New) A method for providing caller identification information for a voice call, originating from a remote calling subscriber device, to a called telephone subscriber line comprising the steps of:

receiving a voice call intended for the called telephone subscriber line, originated by a calling party at the remote calling subscriber device through a packet switched data network, handed-off from a gateway that interfaces between the packet switched data network and a public switched telephone network (PSTN);

initiating routing of a telephone call through the PSTN to the called telephone subscriber line for use in completing the voice call to the called telephone subscriber line;

receiving a signaling message containing originating caller identification information from the gateway; and

transporting the originating caller identification information through the PSTN to the called telephone subscriber line while routing the telephone call through the PSTN.

34. (New) The method as in claim 33, wherein the step of receiving the signaling message comprises receiving the originating caller identification information over an ISDN channel from the gateway.

35. (New) The method as in claim 33, wherein the step of receiving the signaling message comprises receiving the originating caller identification information over a Feature Group D trunk from the gateway.

36. (New) The method as in claim 33, wherein the step of receiving the signaling message comprises receiving the originating caller identification information over a Simplified Message Desk Interface (SMDI) link from the gateway.

37. (New) The method as in claim 33, wherein the step of transporting comprises:
transmitting the originating caller identification information to a terminating office of the PSTN in an out-of-band interoffice signaling message; and
in response to the out-of-band interoffice signaling message, transmitting the originating caller identification information from the terminating office over the called telephone subscriber line.

38. (New) The method as in claim 37, wherein the out-of-band interoffice signaling message comprises a message formatted in accord with a part of the Signaling System 7 (SS7) protocol.

39. (New) A public switched telephone network (PSTN) serving a destination subscriber station, comprising:

a first telephone switching office having at least one link for voice telephone calls and associated signaling to a gateway coupled between the PSTN and a packet switched data network;

a second telephone switching office serving a telephone link to the destination subscriber station; and

an interconnection between the first and second telephone switching offices, wherein:

the first telephone switching office is adapted to recognize a voice call arriving from the gateway, obtain originating caller identification information from the gateway, and signal the originating caller identification information to the second telephone switching office, and

the second telephone switching office is adapted to attempt to complete a telephone call over the telephone link to the destination subscriber station for the recognized voice call from the gateway, and to transmit the originating caller identification information over said telephone link.

40. (New) The public switched telephone network (PSTN) as in claim 39, wherein the interconnection between the first and second telephone switching offices includes an out-of-band signaling network coupled between the first and second telephone switching offices, for transporting the signaling therebetween.

41. (New) The public switched telephone network (PSTN) as in claim 39, wherein the second telephone switching office serves a telephone line connected to the destination subscriber station.--

REMARKS

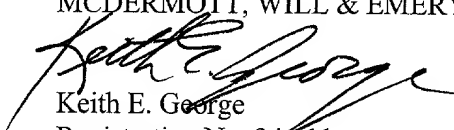
Applicants are presenting the amendments to page 1 in order to complete the related application data in the specification and to provide patent numbers for two of the cases that have now issued. The amendments to page 1, paragraph 1 are shown in marked-up form on the attached page captioned: **Version With Markings To Show Changes Made**

Applicants also have cancelled the original claims and presented a complete new set of claims (20-41), for examination in this continuation case. Applicants submit that the new set of claims find full support in the original disclosures. Attention, for example, is directed to Fig. 4 and the description thereof on pages 24 and 25 of the specification, as well as to Figs. 5A and 5B and the description on pages 28-31 of the specification.

The new claims provide additional coverage believed to be patentable to Applicants. Applicants respectfully request a prompt favorable consideration of this new case.

Respectfully submitted,

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Version With Markings To Show Changes Made

Page 1, paragraph 1 (in lines 2-12), has been amended as shown by the bracketing (deletions) and underlining (additions) in the following copy.

This application is related to application Serial No. 08/821,027 [(Our Docket No. 680-189)], filed March 3, 1997 and entitled Voice Call Alternative Routing Through PSTN And Internet Networks, application Serial No. 08/634,544, entitled Universal Access Multimedia Network, filed April 18, 1996 (now USP 5,790,548), application Serial No. 08/634,543, entitled Internet Telephone Service, filed April 18, 1996 and application Serial No. 08/670,908, entitled Internet Telephone System, filed June 28, 1996 (now USP 6,069,890). The specification of those applications are incorporated herein by reference in their entirety.